

DATABASE TECHNOLOGY IN INDIA

Solution – 1

create table student

```
(  
    rollno number (4)primary key,  
    name varchar2(10)not null,  
    course varchar2(8) check(course='BCA' or course='MCA' or course='PGDCA'),  
    sem number(8)check(sem between 1 and 6),  
    sub1 number(4)check(sub1 between 1 and 100),  
    sub2 number(4)check(sub2 between 1 and 100),  
    sub3 number(4)check(sub3 between 1 and 100),  
    total number(5)default 0,  
    per number(5,2)default 0,  
    result varchar2(5)null,  
    class varchar2(15)null  
);
```

All Querys

1. display all records of atable

```
= select * from student_data;
```

2. display all records of the students whose per is greater than 60%

= `select * from student_data where per>60%;`

3. display name of students whose name is "ajay1"

= `select * from student_data where name='ajay1';`

4. display only name and city whose name is start with 'a'

= `select * from student_data where name like 'a%';`

5. display only name and city whose name is end with 'a'

= `select * from student_data where name like '%a';`

6. update city='rajkot' where rollno <= 103

= `update student_data set city = 'rajkot' where rollno=103;`

7. display name of students whose class is 'b'

= `select * from student_data where class = 'b';`

8. display of students whose course is 'bca'

= `select * from student_data where course = 'bca';`

9. display all records of students whose sem is "1"

= `select * from student_data where sem = 1;`

10. display all the records with column name, course and sem

= `select name, course, sem from student_data;`

11. display all records of students whose sem between 1 to 3

= `select * from student_data where sem <= 3;`

= `select * from student_data where sem between 1 and 3;`

12. count total number of student

= `select count (rollno) from student_data;`

13. display all student who are pass, whose course is bca and lived in rajkot

= `select * from student_data where result = 'pass' and course = 'bca' and city = 'rajkot';`

14. find the student of city "rajkot"

= `select * from student_data where city = 'rajkot';`

15. find all the students whose are not from 'rajot'

= `select * from student_data where city <> 'rajkot';`

16. display the rollno, name and city of the student with 'a' class

= `select rollno, name, city from student_data where class = 'a';`

17. find out the list of all student who stayd in "delhi" or "rajkot"

= `select * from student_data where city='rajkot' or city='delhi';`

18. count number of student whose total mark is greater than 200

= `select count(rollno) from student_data where total > 200;`

19. display the information of student whose rollno is 102

= select * from student_data where rollno = 102;

20. find the student whose percentage is between 50 and 60

= select * from student_data where per between 50 and 60;

21. delete all student whose total is bellow 150

= delete from student_data where total < 150;

22. delete all student of city "surat" and department mca

= delete from student_data where city = 'delhi' and course = 'mca';

23. update city='surat' whose course is 'mca'

= update student_data set city='surat' where course='mca';

24. update semester=4 for student who are living in rajkot and whose course is bca

= update student_data set sem = 4 where city = 'rajkot' and course = 'bca';

25. display the student_data list having first or second class

= select * from student_data where class = 'a' or class = 'b';

= second * from student_data class in('a','b');

26. display the student_data list having first or second class and living in city "rajkot"

= select * from student_data where class = 'a' or class = 'b' and city = 'rajkot';

= second * from student_data where class in('a','b') and city = 'rajkot'

27. display student_data name, total and city whose total is greater then 200 and living in city "rajkot" or "delhi"

= select * from student_data where total > 200 and city = 'rajkot' or city = 'delhi';

= select name, total, city from student_data where total > 200 and city in('rajkot','delhi');

28. display all student_data of "rajkot" or "delhi" and mca or pgdca

= select * from student_data where city = 'rajkot' or city = 'delhi' and course = 'mca' or course = 'pgdca';

select * from student_data where city in ('rajkkot','delhi') and course in ('mca','pgdca');

29. display rollno, name, total with adding 20 marks in total for all student_data

= select rollno, name, total+20 as from student_data;

= select rollno, name, total+20 as newtotal from student_data;

30. in above query display the percentage with "%" signe

= select name, concat (per,'%')as per from student_data;

31. display name, city and total in descending order of total

= select name, city, total from student_data order by total desc;

32. display the list of student_data alphabatically

= select * from student_data order by name;

33. display name and city of all student_data with unique name

= select distinct (name) from student_data;

= select distinct name from student_data;

34. find maximum total

= select max (total) from student_data;

35. find average of total

= select avg (total) from student_data;

36. find sum of total of all student_data

= select sum (total) from student_data;

37. find total number of student_data

= select count (rollno) from student_data;

38. display list of citys available on table

= select city from student_data group by city;

39. count number of citys available on table

= select city, count(*) from student_data group by city;

40. display the student_data data city wise

= select * from student_data order by city;

41. display course wise total number of student_data

= select count(total), course from student_data group by course;

42. display course wise average total of all student_data

= select avg(total), course from student_data group by course;

43. display total marks(total of sub1, sub2 and sub3) student_data

= select rollno sum(sub1+sub2+sub3) as total_marks from student_data group by rollno;

44. count and display total and percentage from sub1, sub2 and sub3 for each

= select rollno, sum(sub1+sub2+sub3)/3 as percentage from student_data group by rollno;

45. display semester wise course and city of all student_data os bca and mca

= select sem, course, city from student_data where course in ('bca','mca') group by sem, course, city;

46. display result wise sum of total and sum of percentage of all student_data

= select result, sum(total), sum(per) from student_data group by result;

= select course, avg(total) from student_data where sem in ('1','2') group by course;

47. display course wise average total of student_data of sem1 and sem2 student_data

= select class, count(*) from student_data where course = 'mca' and class in ('a','b') group by class;

48. display class wise count of all student_data of mca who got first class or distinction

= update student_data set class = 'first class' where per > 70;

49. remove data of student whose city is 'rajkot' and who are in bca course

= delete from student_data where city = 'rajkot' and course = 'bca'

50. apply commit command to sava data permenetly

= commit;

